AMENDMENT TO THE CLAIMS:

This listing of claims will replace all prior versions of claims in the application:

LISTING OF CLAIMS:

 (CURRENTLY AMENDED) A composite ring for coupling a disk to a spindle An assembly, comprising:

a magnetic disk; and

a composite ring engaging the disk, the composite ring comprising:

- a <u>an</u> upper layer constructed of a material having a Young's modulus greater than or equal to a primary material of the disk; and
- a lower layer fixedly coupled to the upper layer without requiring external biasing thereagainst for the fixed coupling, the lower layer being constructed of a material having similar properties to that of the disk, the properties being selected from a group consisting of a coefficient of thermal expansion, thermal conductivity and Young's modulus.
- wherein neither the upper layer nor a layer of a same material as the upper layer is positioned along a full extent of an area between the lower layer and the disk.
- (WITHDRAWN) A composite ring as recited in claim 1, wherein the upper layer has a Young's modulus between about 20 to about 250 GPa.
- (CURRENTLY AMENDED) A composite ring An assembly as recited in claim

 wherein the Young's modulus of the upper layer is between about 60 to about

 300 GPa.

- (CURRENTLY AMENDED) A composite ring An assembly as recited in claim

 wherein the lower layer has a thermal expansion of between about 1 and 25
 (10⁻⁶/C).
- (WITHDRAWN) A composite ring as recited in claim 1, further comprising a middle layer fixedly coupled between the upper and lower layers.
- (CURRENTLY AMENDED) A composite ring An assembly as recited in claim
 wherein the layers are coupled together via mechanical bonding.
- (CURRENTLY AMENDED) A composite ring An assembly as recited in claim
 t, wherein the layers are coupled together by an adhesive.
- (CURRENTLY AMENDED) A composite ring An assembly as recited in claim
 wherein the layers are coupled together at a molecular level.
- 12. (WITHDRAWN) A composite ring for coupling a disk to a spindle, comprising:

- a upper layer constructed of a material having a Young's modulus greater than or equal to a primary material of the disk; and
- a lower layer fixedly coupled to the upper layer without requiring external biasing thereagainst for the fixed coupling, the lower layer being constructed of a material having similar properties to that of the disk, the properties being selected from a group consisting of a coefficient of thermal expansion wherein the upper layer has a hardness of greater than about 20 kg/mm²;

wherein the upper layer has a Young's modulus of greater than about 60 GPa.

- 13. (WITHDRAWN) A composite ring as recited in claim 12, wherein the upper layer is constructed of a material selected from a group consisting of chrome, titanium, nickel, stainless steel and composites thereof.
- 14. (WITHDRAWN) A composite ring as recited in claim 12, wherein the lower layer has a thermal expansion between about 1 and 25 (10⁻⁶/C).
- 15. (WITHDRAWN) A composite ring as recited in claim 12, wherein the lower layer is constructed of a material selected from a group consisting of aluminum and glass.
- 16. (WITHDRAWN) A composite ring as recited in claim 12, further comprising a middle layer fixedly coupled between the upper and lower layers.
- (WITHDRAWN) A composite ring as recited in claim 12, wherein the layers are coupled together via mechanical bonding.
- (WITHDRAWN) A composite ring as recited in claim 12, wherein the layers are coupled together by an adhesive.

- (WITHDRAWN) A composite ring as recited in claim 12, wherein the layers are coupled together at a molecular level.
- 20. (WITHDRAWN) A composite ring as recited in claim 12, wherein a ratio of the Young's modulus of the upper layer to a modulus of the lower layer is between about 1 and 5.
- (WITHDRAWN) A composite ring for coupling a disk to a spindle, comprising:
 a upper layer; and
 - a lower layer fixedly coupled to the upper layer without requiring external biasing thereagainst for the fixed coupling, the lower layer being constructed of a material having similar properties to that of the disk, the properties being selected from a group consisting of a coefficient of thermal expansion and thermal conductivity;
 - wherein the upper layer has a Young's modulus greater than that of a primary material of the disk;
 - wherein a ratio of the modulus of the upper layer to a modulus of the lower layer is between about 1 and 5.
- 22. (WITHDRAWN) A composite ring as recited in claim 21, wherein the lower layer has a thermal expansion between about 1 and 25 (10⁻⁶/C).
- 23. (WITHDRAWN) A composite ring as recited in claim 21, wherein the lower layer is constructed of a material selected from a group consisting of aluminum and glass.
- 24. (WITHDRAWN) A composite ring as recited in claim 21, further comprising a middle layer fixedly coupled between the upper and lower layers.

25. (WITHDRAWN) A magnetic storage system, comprising: magnetic media coupled to a spindle using the composite ring of claim 1; at least one head for reading from and writing to the magnetic media, each head

a sensor;

having:

a write element coupled to the sensor;

a slider for supporting the head; and

a control unit coupled to the head for controlling operation of the head.